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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

Claim 1 (currently amended): An air co

An air conditioning system for a motor vehicle.

comprising:

- an air distributor device (1) including:

- a structure (2) defining a main conduit (3) and a plurality of outlet conduits (4,5,6)

communicating with the main conduit (3) and to be connected to a plurality of outlets for the

outflow of air into the motor vehicle passenger compartment,

- Coanda effect distributor means mounted in the structure (2) of the distributor device

(1) and movable to a plurality of operative positions each causing deviation, by the Coanda

effect, of the air flowing through the main conduit into a selected one of said outlet conduits,

characterised in that said distributor device (1) further comprises:

said Coanda effect distributor means comprising a flow perturbating member (16) having

at least one active portion (18) and movable between:

a first operative position, in which said active portion (18) is retracted within an

opening (20) formed in a lateral wall (3a) of the main conduit (3), so that the air flowing through

the main conduit (3) remains adherent to said lateral wall (3a) by the Coanda effect, thus flowing

into a first outlet conduit (4) having a lateral wall arranged as an extension of said lateral wall

(3a) of the main conduit, and

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a second operative position in which said active portion (18) protrudes inside the main conduit (3) through said opening (20) formed in said lateral wall (3a) of the main conduit (3), so that the air flow is caused to detach from said lateral wall (3a) and to be attracted, again by the Coanda effect, by an opposite wall of a second outlet conduit (5), thus flowing into said second outlet conduit (5).

- a heat radiating mass (10) positioned upstream of the main conduit (3) in a conduit

portion connecting the main conduit (3) to an inlet conduit (7), in such a way that said radiating

mass (10)as-to-be is traversed by the flow of air which arrives into the main conduit (3) from an

the inlet conduit (7) of the distributor device (1), to heat said flow of air,

 means which determine a variation of for changing the temperature of the flow of air conveyed into said main conduit, said temperature changing means comprising

a by-pass conduit (15) which connects the inlet conduit (7) to the main conduit (3) in parallel to said conduit portion in which said radiating mass (10) is positioned, and a throttling member (22) for throttling said by-pass conduit (15), for variably obstructing said by-pass conduit (15), said throttling member (22) being operatively connected to said flow perturbating member (16) of the said means being controlled by said Coanda effect distributor means, so that different positions of the perturbating member (16), which cause deviation of the air flow into a selected one of said outlet conduits (4,5,6), correspond to different positions of the throttling member (22), in such a way that the temperature of the air flowing out of the distributor device is a function of the operative position of said Coanda effect distributor means, the temperature of the flow of air exiting the distributor device (1) has different values depending on which outlet conduit (4,5,6) has been selected through said perturbating member of the Coanda effect distributor means.

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Claims 2 and 3: (canceled).

constituting the aforesaid rocker arm member (16).

Claim 4 (currently amended): An air conditioning system as claimed in claim 31, eharaeterised in that wherein said flow perturbating member (16) is a rocker arm member having two opposite operative ends (18,19) situated in correspondence with two openings (20, 21) formed in saida lateral wall (3a) of the main conduit (3) and in that said rocker arm member (16) has a first end operative position, in which one of its opposite ends (18, 19) protrudes through the respective opening (20, 21) inside the main conduit (3), a second operative position in which the other operative end of the rocker arm member (16) projects through the respective opening (20, 21) inside the main conduit (3) and a third operative position, intermediate between the two previous ones, in which neither of the two operative ends (18, 19) protrudes inside the main conduit (3), and in that said throttling member is a shutter (22) is defined by the same structure

Claim 5 (currently amended): An air conditioning system as claimed in claim 4, characterised in that in the aforesaid said first end operative position of the rocker arm member (16), the shutter (22) leaves the aforesaid by-pass conduit (15) completely unobstructed and in the aforesaid second end operative position of the rocker arm member (16), the shutter (22) completely obstructs the by-pass conduit (15).

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Claim 6 (currently amended): An air conditioning system as claimed in claim 5, characterised in that in wherein said third intermediate operative position of the rocker arm member (16), the shutter (22) partially obstructs the by-pass conduit (15).

Claim 7 (currently amended): An air conditioning system as claimed in claim 5, eharacterised in that in the aforesaid-wherein said third intermediate operative position of the rocker arm member (16) the shutter (22) completely obstructs the by-pass conduit (15).

Claim 8 (currently amended): An air conditioning system as claimed in claim 1, eharacterised in that the wherein said distributor device further comprises a mixing controlling shutter (11) which controls an opening (13) which places the inlet conduit (7) in communication directly with the main conduit (3), in parallel with respect to the conduit portion in which the radiating mass (10) is positioned.

Claim 9 (previously presented): An air conditioning system as claimed in claim 1, characterised in that it comprises an air distributor and mixer assembly comprising a plurality of main conduits set mutually side by side and each communicating with a plurality of outlet conduits, each main conduit being provided with respective Coanda effect distributor means, with a respective by-pass conduit and with respective throttling means (22).

Claim 10 (original): An air conditioning system as claimed in claim 1, characterised in that it comprises three outlet conduits (4, 5, 6) respectively to be connected to outlets which direct the air adjacent to the floor of the motor vehicle passenger compartment, to outlets situated

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in the front part of the dashboard of the motor vehicle oriented towards the occupants of the motor vehicle, and to outlets situated at the base of the windshield of the motor vehicle, and in that the aforesaid throttling means are shaped and positioned in such a way as to generate in the main conduit (3) a flow having a first, relatively lower, temperature, when the Coanda effect distributor means deviate the flow of air into the outlet conduit (5) communicating with the front outlets, a flow of air at a second, relatively higher temperature when the Coanda effect distributor means send the flow of air from the main conduit (3) to the outlet conduit (4) connected to the outlets adjacent to the floor of the motor vehicle passenger compartment, and a flow of air having a third, still higher temperature, when the Coanda effect distributor means deviate the flow of air from the main conduit (3) to the third outlet conduit (6) communicating with the outlets situated at the base of the windshield of the motor vehicle.

Claim 11 (currently amended): An air conditioning system as claimed in claim 1, characterised in that it is provided with means for regulating the heating or cooling air including a mixing controlling shutter (11) which controls an opening (13) that places the inlet conduit (7) of the distributor device directly in communication with the main conduit (3) in parallel to the portion of conduit in which the radiating mass (10) is positioned, characterised in that said mixing controlling shutter (11) is operatively connected to said flow perturbation member of the Coanda effect distributor means, in such a way that to different operative positions of the Coanda effect distributors also correspond different operative positions of the mixing controlling shutter (11).

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Claim 12 (currently amended): An air conditioning system as claimed in claim 54, characterised in that said mixing controlling shutter(11) is provided with an appendage (11a) which completely obstructs the by-pass conduit (15) when the mixing controlling shutter is in the position of complete obstruction of the aforesaid by-pass opening (13).

Claim 13 (previously presented): An air conditioning system as claimed in claim 1, comprising at least two main conduits (3) set mutually side by side, communicating with respective sets of outlet conduits (4, 5, 6) which in turn are connected to a series of outlets situated in the central part of the dashboard of the motor vehicle and to a series of outlets situated on a side of the dashboard of the motor vehicle, characterised in that to the two aforesaid main conduits is associated a single mixing controlling shutter (11) comprising two portions (110, 111) angularly offset from each other and positioned in a single chamber for feeding air to the two main conduits, in such a way as to favour a greater flow of cold air towards the main conduit communicating with the central outlets than towards the main conduit communicating with the lateral outlets.

## Kindly add the following new claim:

Claim 14 (new): An air conditioning system for a motor vehicle, comprising:

- an air distributor device (1) including:
- a structure (2) defining a main conduit (3) and a plurality of outlet conduits (4, 5, 6)
   communicating with the main conduit (3) and to be connected to a plurality of outlets for the outflow of air into the motor vehicle passenger compartment,

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Coanda effect distributor means mounted in the structure (2) of the distributor device
 (1) and movable to a plurality of operative positions each causing deviation, by the Coanda effect, of the air flowing through the main conduit into a selected one of said outlet conduits,

wherein said distributor device (1) further comprises:

- a radiating mass (10) positioned upstream of the main conduit (3) in such a way as to be traversed by the flow of air which arrives into the main conduit (3) from an inlet conduit (7) of the distributor device (1), to heat said flow of air,
- means which determine a variation of the temperature of the flow of air conveyed in said main conduit, said means being controlled by said Coanda effect distributor means, in such a way that the temperature of the air flowing out of the distributor device is a function of the operative position of said Coanda effect distributor means.

wherein said distributor device (1) further comprises a by-pass conduit (15) which connects the inlet conduit (7) to the main conduit (3) in parallel to the portion of conduit where the aforesaid radiating mass (10) is positioned, and means (22) for throttling said by-pass conduit (15) for variably obstructing said by-pass conduit (15) depending upon the various operative positions of the Coanda effect distributor means which determine the deviation of the flow of the main conduit (3) into one of the aforesaid outlet conduits (4, 5, 6), in such a way that the temperature of the flow of air exiting the distributor device (1) has different values depending on which outlet conduit (4, 5, 6) has been selected through said Coanda effect distributor means,

wherein said Coanda effect distributor means comprise at least a flow perturbating member (16) having at least two different operative positions to cause the deviation, by Coanda effect, of the flow of air that travels through the main conduit (3) at least into a first or into a

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second outlet conduit (4, 5, 6), and in that said throttling means (22) are constituted by a shutter, mechanically connected to said flow perturbating member (16), and

wherein said flow perturbating member (16) is a rocker arm member having opposite operative ends (18, 19) situated in correspondence with two openings (20, 21) formed in a lateral wall (3a) of the main conduit (3) and in that said rocker arm member (16) has a first end operative position, in which one of its opposite ends (18, 19) protrudes through the respective opening (20, 21) inside the main conduit (3), a second operative position in which the other operative end of the rocker arm member (16) projects through the respective opening (20, 21) inside the main conduit (3) and a third operative position, intermediate between the two previous ones, in which neither of the two operative ends (18, 19) protrudes inside the main conduit (3), and in that said shutter (22) is defined by the same structure constituting the aforesaid rocker arm member (16).